PROJECT DESCRIPTION

GENERAL THIS PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC SIGNAL AT THE INTERSECTION OF MD 177 (MOUNTAIN ROAD) AT MD 100 (PAUL T. PITCHER MEMORIAL HIGHWAY) IN ANNE ARUNDEL COUNTY. THE SIGNAL WILL BE UPGRADED TO FULL SIGNAL CONTROL. LED VEHICULAR TRAFFIC SIGNALS AND VIDEO DETECTION WILL BE INSTALLED.

MD 177 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA TWO PHASE, FULLY-ACTUATED TRAFFIC MODE WITH EXCLUSIVE LEFT TURN PHASING FOR WESTBOUND MD 177.

CONTROLLER REQUIREMENTS

THE EXISTING POLE MOUNTED CABINET, CONTROLLER AND ASSOCIATED HARNESSES SHALL REMAIN. THE SHA SIGNAL SHOP WILL INSTALL ONE (I) VIDEO DETECTION INTERFACE EQUIPMENT WITHIN THE CABINET.

THE CONTACT PERSONS FOR DISTRICT #5 / OOTS: District #5

Ms.Kimberly Tran Assistant District Engineer - Traffic Phone: 410-841-1019

Mr. Mike Huber District Utility Engineer Phone: 410-841-1039

Mr. John S. Mays Assistant District Engineer - Maintenance Phone: 410-841-1013

Mr. James Folden Assistant District Engineer - Construction Phone: 410-841-1031

Office Of Traffic & Safety Mr. Richard L. Daff Sr. Chief, Traffic Operations Division Phone: 410-787-7630

Mr. Robert Snyder Assistant Division Chief, Traffic Operations 410-787-7630

Mr. Edward Rodenhizer Team Leader Signal Operations Phone: 410-787-7650

Mr.Eugene Bailey Team Leader Sign Operations 410-787-7670

The Power Company Representative is: Baltimore Gas & Electric Company 7317 Parkway Drive South Hanover, Maryland Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO. QUANTITY <u>DESCRIPTION</u> 9086 LEA VIDEO DETECTION INTERFACE EQUIPMENT: I-2 CAMERAS 9570 7 SF SHEET ALUMINUM GROUND MOUNTED SIGN: $I EA - RI - I (30 IN. \times 30 IN.)$ SHEET ALUMINUM MAST ARM/ POLE MOUNTED SIGN: $1 EA - MI - 5(6) (48 IN. \times 72 IN.)$ "WEST, MD 100, LEFT ARROW"

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

<u>QUANTITY</u> <u>DESCRIPTION</u> ITEM NO.

NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM BG&E #300715 D ★ NML NML EX. I/C U/G SOUTH TO LANE CONTROL SIGNAL A,B,D,E,F,EPS

A CONTROL CABLE - 250 FT., VIDEO B DETECTION CAMERA TO CONTROLLER

C - USE EXISTING CABLE

D NON-INVASIVE DETECTOR E 1000 FT. LEAD-IN CABLE

F MICROLOOP PROBE DETECTOR

EPS - EXISTING POWER SERVICE

EXISTING GROUND ROD --3/4 IN. DIAMETER X 10 FOOT LENGTH

NML -NON-INVASIVE MICROLOOP PROBE SET

ML -MICROLOOP PROBE SET

PHASE CHART

FHASE CHART							
	1 (R) (Y)	2 (R) (Y)	3	4	5		
PHASE 1	(G) R	G) R	€ G−	€ + G−	4 G−		
PHASE 1 CHANGE	R	R	← Y-	← Y−	← Υ	H ▼	
PHASE 2	G	G	← R−	← R	+R-		
PHASE 2 CHANGE	Υ	Υ	← R−	← R−	◆R-		
FLASHING OPERATION	FL/Y	FL/Y	FL/RA	FL/RA	FL/RA	+>	

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

DESCRIPTION

MAINTENANCE OF TRAFFIC PER ASSIGNMENT

12 INCH LED SIGNAL HEAD SECTION

LED SIGNAL HEAD MODULES (ANY SIZE)

VIDEO DETECTION CAMERA & CABLE

FURNISH AND INSTALL ELECTRICAL HANDHOLE

SAW CUT FOR SIGNAL (LOOP DETECTOR)

REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH

24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS

MICROLOOP PROBE (ANY LENGTH) LEAD IN CABLE UP TO 1000'

NONINVASIVE DETECTOR (ANY LENGTH) LEAD IN CABLE UP TO 1000'

REMOVE & DISPOSE OF MATERIAL & EQUIPMENT PER ASSIGNMENT

I INCH DETECTOR SLEEVE GALVANIZED OR FLEXIBLE LIQUID TIGHT

INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)

UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED

UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED

QUANTITY

1 EA

25 LF

55 LF

12 EA

3 EA

LEA

2 EA

I EA

2 EA

8 LF

75 LF

80 LF

36 SF

3 EA

25 LF

ITEM NO.

1003

5001

5005

1008

8017

8022

8023

8024

8028

8029

8034

8036

8038

8044

8057

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

MD 177 (MOUNTAIN ROAD)

AT MD 100 (PAUL T. PITCHER MEMORIAL HIGHWAY)

GENERAL INFORMATION

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NDFI			
ANNE ARUNDEL 02017705.07			
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